BRUHAT BENGALURU MAHANAGARA PALIKE

Raja Rajeshwari Nagar Project Division

Name of the work :- Improvements and Development of School Buildings at Jalahalli In Ward No 16

MEASUREMENT SHEET

Bill No :	1st RA bill	6/12/2021
Item No	14	
Item Name	KSRB 4-6.5: Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square /rectangular / polygon in plan including cost of all materials, labour complete as per specification. Specification No. KBS 4.6.2 (P.No.16, I.No.4.32 of P,W, D S.R 2018-19) For Ground Floor	

S.N	Description of work	Unit	No	No	L	B	D	Qty
	C1	Sqm	2	4	0.2		2.95	4.72
		Sqm	2	4	0.75		2.95	17.7
	C2	Sqm	2	14	0.2		2.95	16.52
		Sqm	2	14	0.75		2.95	61.95
		Sqm	2	4	0.2		2.7	4.32
		Sqm	2	4	0.75		2.7	16.2
	C3	Sqm	2	4	0.2		2.95	4.72
		Sqm	2	4	0.75		2.95	17.7
		Sqm	2	2	0.2		2.7	2.16
		Sqm	2	2	0.75		2.7	8.1
	C4	Sqm	2	4	0.2		2.7	4.32
		Sqm	2	4	0.75		2.7	16.2
		Sqm	2	2	0.2		2.7	2.16
		Sqm	2	2	0.75		2.7	8.1
	STAIR CASE 3rd FLIGHT							
	landing	Sqm	2	1	1.5	3.7		11.1
	landing side	Sqm	2	1	0.95		0.15	0.285
	waist slab	Sqm	2	1	2.75	1.5		8.25
	Riser	Sqm	2	11	1.5		0.15	4.95
	Sides	Sqm	2	2	2.75		0.3	3.3
	Landing Beam	Sqm	2	1	3.3	0.2		1.32
		Sqm	2	1	3.3		0.45	2.97

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		Sqm	2	1	3.3		0.6	3.96
	STAIR CASE 4th FLIGHT							
	waist slab	Sqm	2	1	2.75	1.5		8.25
	Riser	Sqm	2	11	1.5		0.15	4.95
	Sides	Sqm	2	1	2.75		0.3	1.65
						Total Qty		221.91

231.27

MB Ecly – 231.27
4 EMB

For M/S K. DAMODAR & Co.

Contactor
D. MANJUNATH
Managing Partner

CIVIL QUALITY CONSULTANTS & ENGINEERS
Bangalore
Consultants

06/12/2021

Assistant Engineer
Ward No-16,
BBMP

06/12/2021

Assistant Executive Engineer
Yeshwanthapura Sub-Division
BBMP

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BRUHAT BENGALURU MAHANAGARA PALIKE

Raja Rajeshwari Nagar Project Division

Name of the work :- Improvements and Development of School Buildings at Jalahalli In Ward No 16

MEASUREMENT SHEET

Bill No :	1st RA bill	8/12/2024
Item No	11	

Item Name: KSRB 4.2.7 : Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintles and beams retaining walls, return walls, walls (any thickness) including attached pilasters, columns, ,pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6. (Issue rate as on date 21-10-19, Item No. 4.12) For First Floor

S.N	Description of work	Unit	No	No	L	B	D	Qty
	COLUMN Roof beam btm level							
	C1	Cum	1	4	0.2	0.75	2.95	1.77
	C2	Cum	1	14	0.2	0.75	2.95	6.20
	C2	Cum	1	4	0.2	0.75	2.7	1.62
	C3	Cum	1	4	0.2	0.75	2.95	1.77
	C3	Cum	1	2	0.2	0.75	2.7	0.81
	C4	Cum	1	4	0.2	0.75	2.95	1.77
		Cum	1	2	0.2	0.75	2.7	0.81
	STAIR CASE 3rd FLIGHT							
	landing	Sqm	2	1	1.5	3.7	0.15	1.67
	waist slab	Sqm	2	1	2.75	1.5	0.15	1.24
	Riser	Sqm	2	11	1.5	0.3	(0+0.153)/2	0.76
	Landing Beam	Sqm	2	1	3.3	0.2	0.6	0.79
	STAIR CASE 4th FLIGHT							
	waist slab	Sqm	2	1	2.75	1.5	0.15	1.24
	Riser	Sqm	2	11	1.5	0.3	(0+0.153)/2	0.76
							Total Qty	21.20

For M/s K. DAMODAR & Co.

Contactor

D. MANJUNATH
Managing Partner

Assistant Engineer
Ward No-16,
BBMP

QUALITY CONTROL & ENGINEERS Bangalore

Consultants

Assistant Executive Engineer
Yeshwanthapura Sub-Division
BBMP

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BRUHAT BENGALURU MAHANAGARA PALIKE

Raja Rajeshwari Nagar Project Division

Name of the work :- Improvements and Development of School Buildings at Jalahalli In Ward No 16

MEASUREMENT SHEET

Bill No :	1st RA bill							24/12/2021
Item No	51							
Item Name	KSRB 4-6.3: Providing and removing centering, shuttering, strutting, propping etc., an removal of form work for flat surface such as suspended floors,roofs,landings,balconies and likes thickness above 200 mm including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (P.No.16, I.No.4.30 of PWD SR 2018-19) For First Floor							

S.N	Description of work	Unit	No	No	L	B	D	Qty
	Roof slabcentring for First floor							
	B7B8 to M7M8	Sqm	1	1	38.1	7.15		272.42
	A2A7 to N2N7	Sqm	1	2	8.75	2.15		37.63
		Sqm	1	1	14.3	2.76		39.47
		Sqm	1	2	8.75	8.02		140.35
		Sqm	1	1	19.69	6.7		131.92
	F'2 to I'2	Sqm	1	1	6.95	1.35		9.38
	slab projection							0.00
	A'2 to A'6 & N'2 to N '6	Sqm	1	2	8.87	0.85		15.08
	A'2 to C2 & L2,N'2	Sqm	1	2	8.75	0.85		14.88
	D2 to F2 & I2 to K2	Sqm	1	2	6.37	0.85		10.83
	F2 to I2		1	1	9.65	0.85		8.20
	C2 to C4& L2 to L4		1	2	3.045	0.85		5.18
	D3 to D4 & K3 to K4		1	2	2.35	0.85		4.00
	Deduct							
	B8,C8,E8,G8,H8,J8,L8,M 8,A2,C2,D3,K3,L2,N2	Sqm	1	14	0.2	0.2		-0.56
	B7,C7,E7,G7,H7,J7,L7,M 7,A6,C6,D5,F5,I5,K5,N6, C4,L4,F2,F1,F2,I2,I1	Sqm	1	20	0.2	0.75		-3
	Landscape	Sqm	1	1	4.1	4.45		-18.25
							Total Qty	667.52

For M/s. K. DAMODAR & Co.

Contactor

B. MANJUNATH
Managing Partner

24/12/2021

Assistant Engineer
Ward No-16,
BBMP

Consultants

24/12/2021

Assistant Executive Engineer
Yeshwanthapura Sub-Division
BBMP

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BRUHAT BENGALURU MAHANAGARA PALIKE

Raja Rajeshwari Nagar Project Division

Name of the work :- Improvements and Development of School Buildings at Jalahalli In Ward No 16

MEASUREMENT SHEET

Bill No :	1st RA bill							24/12/2024
Item No	45							
Item Name	KSRB 4-6.7: Providing and removing centering, shuttering, strutting, propping etc., an removal of form work for sides and soffits of beams, beam haunchings, cantilever, girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (P.No.17, I.No.4.34 of PWD S.R 2018-19) For Ground Floor							

S.N	Description of work	Unit	No	No	L	B	D	Qty
	Beam side ground floor							
	B1,B2,B3,B4,B5,B6,B7,B9 ,B10,B11,B13,B14,B15	Sqm	12	2	5.4		0.45	58.32
	B30B	Sqm	1	2	4.9		0.45	4.41
		Sqm	1	2	5.3		0.45	4.77
	B33,B36,B38	Sqm	8	2	6.75		0.45	48.6
	B8,B12	Sqm	1	2	4.1		0.45	3.69
	B32	Sqm	4	2	2.15		0.45	7.74
	Column	Sqm	2	1	0.55		0.45	0.50
		Sqm	4	2	2.76		0.45	9.94
	B16,B28,B17,B29	Sqm	4	1	8.35		0.45	15.03
		Sqm	4	1	8.75		0.45	15.75
	Deduct	Sqm	2	8	0.2		0.45	-1.44
	B30A	Sqm	2	1	8.02		0.45	7.22
		Sqm	2	1	7.62		0.45	6.86
	B31,B34,B35	Sqm	4	2	7.62		0.45	27.43
	Deduct	Sqm	2	1	0.2		0.45	-0.18
		Sqm	2	1	0.55		0.45	0.50
	Staircase Beam	Sqm	2	2	3.4		0.6	8.16
		Sqm	2	2	3.4		0.45	6.12
		Sqm	2	4	3.4	0.2		5.44
	B19 ,B20,B21 & B25,B26,B27	Sqm	2	2	19.69		0.6	47.26
	B37,B40	Sqm	2	4	6.3		0.6	30.24
	Deduct	Sqm	1	12	0.2		0.6	-1.44
	Portico BA	Sqm	1	1	6.55		0.6	3.93
		Sqm	1	1	6.75		0.6	4.05
			1	2	1.15		0.6	1.38

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			1	2	1.35		0.6	1.62
	Column	Sqm	8	1	1.3		0.45	4.68
		Sqm	2	1	0.55		0.6	0.66
		Sqm	2	1	0.55		0.45	0.495
	Roof Edge							
	B8 to M8	Sqm	1	1	46.9		0.15	7.04
		Sqm	2	1	4.25		0.15	1.28
		Sqm	2	1	7.7		0.15	2.31
	A'2 to A'7	Sqm	2	1	15.02		0.15	4.51
	A'2 to N'2	Sqm	2	1	13.5		0.15	4.05
		Sqm	1	1	25.39		0.15	3.81
	Stair case	Sqm	2	2	1.7		0.15	1.02
						Total Qty		345.72
						Qty Payble in This Bill		331.41
		Reserve Qty				Above Tender Qty		14.31

MB Abstract Entry: 333.41 ✓

For M/s. K. DAMODAR & Co.

Contractor
MANJUNATH
Managing Partner

CIVIL QUALITY CONSULTANTS & ENGINEERS
Bangalore
Consultants

24/12/2021

Assitant Engineer
Ward No-16,
BBMP

24/12/2021

Assistant Executive Engineer
Yeshwanthapura Sub-Division
BBMP

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BRUHAT BENGALURU MAHANAGARA PALIKE

Raja Rajeshwari Nagar Project Division

Name of the work :- Improvements and Development of School Buildings at Jalahalli In Ward No 16

MEASUREMENT SHEET

Bill No :	1st RA bill	26/12/2021

Item No	48
Item Name	Providing and laying cement concrete using 20mm down size granite jelly of ready mixed concrte (RMC) for R.C.C works laid in 15cms thick and well compacted vibrating, curing etc.,including smooth finish cement mortar 1:3,with all lead lifts etc., complete (exclusive of cost of steel and fabrication charges) -Ready mixed cement concrete for Beams,columns,stairecase and Roof with M-25 (1:1.5:3)(Cement-320Kg/cum) (Issue rate as on date 21-10-19, Item No. 4.49.2) For Ground Floor

S.N	Description of work	Unit	No	No	L	B	D	Qty
	B7B8 to M7M8	Cum	1	1	38.1	7.15	0.15	40.86
	A2A7 to N2N7	Cum	1	2	8.75	2.15	0.15	5.64
		Cum	1	1	14.3	2.76	0.15	5.92
	A2 ,A'6 to C2,C6 ^&L2,L6 to N'2,N6	Cum	1	2	8.75	8.02	0.15	21.05
	D3,D5 to K3,K5	Cum	1	1	19.69	6.7	0.15	19.79
	Portico	Cum	1	1	6.95	1.35	0.15	1.41
	slab projaction							
	A'2 to A'6 & N'2 to N '6	Cum	1	2	7.82	0.85	0.15	1.99
	A'2 to C2 & L2,N'2	Cum	1	2	9.6	0.85	0.15	2.45
	D2 to F2 & I2 to K2	Cum	1	2	6.37	0.85	0.15	1.62
	F2 to I2	Cum	1	1	9.65	0.85	0.15	1.23
	C2 to C4 L2 to L4	Cum	1	2	2.35	0.85	0.15	0.60
	D3 to D4 & K3 to K4	Cum	1	2	2.85	0.85	0.15	0.73
	Deduct							
	Landscape	Cum	1	1	4.1	4.45	0.15	-2.74
	B1,B2,B3,B5,B6,B7,B9,B10,B11,B13,B14,B15	Cum	1	12	5.4	0.2	0.45	5.83
	B30B A'6A'7, A'B7	Cum	1	2	2.951	0.2	0.45	0.53
		Cum	1	2	2.15	0.2	0.45	0.39
	B33,B36,B38	Cum	1	8	7.15	0.2	0.45	5.15

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	B8,B12	Cum	1	2	4.1	0.2	0.45	0.74
	B32	Cum	1	4	2.15	0.2	0.45	0.77
		Cum	1	4	2.76	0.2	0.45	0.99
	B16,B28,B17,B29	Cum	1	4	8.35	0.2	0.45	3.01
	B30A	Cum	1	2	8.02	0.2	0.45	1.44
	B31	Cum	1	2	8.02	0.2	0.6	1.92
	B34,B35	Cum	1	2	8.02	0.2	0.45	1.44
	Staircase Beam	Cum	1	2	3.4	0.2	0.6	0.82
		Cum	2	2	3.4	0.2	0.45	1.22
	B19 ,B20,B21	Cum	2	2	19.69	0.2	0.45	7.09
	B37,B40	Cum	1	4	6.7	0.2	0.6	3.22
	Portico	Cum	1	1	6.09	0.2	0.6	0.73
		Cum	1	2	1.35	0.2	0.6	0.32
	Column	Cum	1	8	0.55	0.2	0.6	0.53
		Cum	1	3	0.55	0.2	0.6	0.20
		Cum	1	3	0.55	0.2	0.6	0.20
					Total Qty Work Done			137.11
					Qty Payble In This Bill			107.37
		Reserve Qty				Above Tender Qty		29.74

For M/s. K. DAMODAR & Co.
Contactor
D. MANJUNATH
Managing Partner

CIVIL QUALITY CONSULTANTS & ENGINEERS Bangalore Consultants

Assitant Engineer
Ward No-16,
BBMP
26/12/2019

Assistant Executive Engineer
Yeshwanthapura Sub-Division
BBMP
26/12/2019

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BRUHAT BENGALURU MAHANAGARA PALIKE

Raja Rajeshwari Nagar Project Division

Name of the work :- Improvements and Development of School Buildings at Jalahalli In Ward No 16

MEASUREMENT SHEET

Bill No : . 1st RA bill 06/1/22.

Item No	26							
Item Name	KSRB 5-14 : Providing and constructing percast concrete solid blocks with compressive strength not less than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, jamb closer blocks) with solid concrete blocks of size 40x20x20cms conforming to I.S : 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. (Issue rate as on date 21-10-19, Item No. 5.27.1) For First Floor							

S.N	Description of work	Unit	No	No	L	B	D	Qty
	B7B8 to M7M8							
	Long Wall	Sqm	2	6	5.4		2.95	191.16
	Short Wall	Sqm	1	7	6.2		2.95	128.03
	Deduct							0
	Lintel	Sqm	1	6	5.4		0.2	-6.48
		Sqm	1	6	1.6		0.2	-1.92
		Sqm	1	1	3.6		0.2	-0.72
		Sqm	1	2	2.4		1.5	-7.2
	Door	Sqm	1	6	1.2		2.4	-17.28
	Windows	Sqm	1	10	1.5		1.5	-22.5
	Windows	Sqm	1	2	2.4		1.5	-7.2
	Windows	Sqm	1	1	3		1.5	-4.5
	Ventilator	Sqm	1	1	6.2		0.3	-1.86
	Ventilator	Sqm	1	1	5.4		0.3	-1.62
	A'2A'6 to C2C6							
	Long Wall	Sqm	2	1	4.25		2.95	25.08
		Sqm	2	1	2.58		3.4	17.54
		Sqm	2	1	5.97		2.95	35.22
		Sqm	2	1	2.63		3.4	17.88
	Short Wall	Sqm	2	1	6.85		2.95	40.42
		Sqm	2	1	1.3		2.95	7.67
		Sqm	2	1	4.35		2.95	25.67
		Sqm	2	2	1.9		3.4	25.84
		Sqm	2	2	1.3		2.95	15.34
	Deduct							
	Column	Sqm	2	2	0.72		2.95	-8.496
	Lintel	Sqm	1	2	5.32		0.2	-2.128
		Sqm	1	2	5.32		0.2	-2.128
	Stair case landing	Sqm	2	2	0.95		0.15	-0.57

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	Door	Sqm	1	2	1.2		2.4	-5.76
	Windows	Sqm	1	8	1.8		1.5	-21.6
	Stair case Room							
		Sqm	1	2	3.4		2.95	20.06
	Deduct							
	Staircase beam	Sqm	1	2	3.4		0.6	-4.08
	Windows	Sqm	1	2	1.8		1.2	-4.32
	A'6 to A'7 & N'6 to N'7							
		Sqm	1	2	4.9		2.95	28.91
	Deduct w	Sqm	1	2	1.5		1.5	-4.5
	D3,D5 to K2,K5							
	Long Wall	Sqm	2	1	6.17		2.95	36.40
		Sqm	2	1	3.67		2.95	21.65
		Sqm	2	2	1.9		3.4	25.84
		Sqm	1	1	6.55		2.95	19.32
		Sqm	1	2	3.6		3.4	24.48
		Sqm	1	1	3.9		2.7	10.53
	Short Wall	Sqm	1	2	4.61		2.7	24.89
		Sqm	1	2	1.83		3.4	12.44
		Sqm	1	2	3.8		2.7	20.52
		Sqm	1	2	2.8		3.4	19.04
		Sqm	1	2	0.55		2.95	3.25
		Sqm	1	2	3.65		2.95	21.54
		Sqm	1	2	2.97		3.4	20.20
		Sqm	1	2	0.67		2.95	3.95
	Deduct							
	Beam	Sqm	1	2	0.2		0.6	-0.24
	Lintel	Sqm	1	3	5		0.2	-3
		Sqm	1	3	1.6		0.2	-0.96
	Door	Sqm	1	3	1.2		2.4	-8.64
	Windows	Sqm	1	6	1.5		1.5	-13.5
					Total Qty Work Done			691.67
					Qty Payble in This Bill			26.55
		Reserve Qty				Above Tender Qty		665.12

For M/s. K. DAMODAR & Co.

Contactor

D. MANJUNATH

Managing Partner

6/1/22

Assitant Engineer

Ward No-16,

BBMP

CIVIL QUALITY CONSULTANTS & ENGINEERS Bangalore

Consultants

6/1/22

Assistant Executive Engineer

Yeshwanthapura Sub-Division

BBMP

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